PATENT COOPERATION TREATY **PCT**

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

See Form PCT/IPEA/416

Applicant's or agent's file reference	FOR FURTHER ACTION		See Form PCT/IPEA/416				
723351		(1,6,-,)	Priority date (day/month/year)				
International application No.	International filing date (day	y/montn/year)	1 July 2003	name Parasi			
PCT/AU2004/000873	30 June 2004						
723351 International application No. PCT/AU2004/000873 International Filing date (day/month/year) 30 June 2004 International Patent Classification (IPC) or national classification and IPC							
Int. Cl. A61K 38/18, A61P 9/10, 13/12, 17/02, AO1K 67/027							
Applicant BAKER MEDICAL RESEARCH INSTITUTE et al							
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1 Decliminary Evernining							
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.							
2. This REPORT consists of a total of 4 sheets, including this cover sheet.							
3 This report is also accompanied by ANNEXES, comprising:							
(sent to the applicant and to	the International Bureau) a to		s follows:				
		ah hawa heen am	ended and are the basis for this report and/or 70.16 and Section 607 of the				
sheets containing rectif	ications authorized by this re	imorry (555					
1		Authority consid	lers contain an amendment that goes beyond item 4 of Box No. I and the Supplemental				
the disclosure in the in	ternational application as filed	l, as indicated in	item 4 of Box No. I and the Supplemental				
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Relating to Sequence Listin	ig (see Section 302 of the ride	ninistrative instru	ictions).				
4. This report contains indications relating to the following items:							
X Box No. I Basis of the	eport						
Box No. II Priority		at of opinion with regard to novelty, inventive step and industrial applicability					
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Box No. IV Lack of unit	y of invention	ith record to nov	elty, inventive step or industrial applicability	r; \			
citations and	Box No. IV Lack of thirty of invention Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; Citations and explanations supporting such statement						
(uments cited			-			
X Box No. VIII Certain obs	X Box No. VIII Certain observations on the international application			=			
Date of submission of the demand		Date of completion of the report		1			
12 January 2005		27 May 2005					
Name and mailing address of the IPEA/A	AU .	Authorized Officer					
ALISTRALIAN PATENT OFFICE							
PO BOX 200, WODEN ACT 2606, AU Famail address: pct@ipaustralia.gov.au	JSTKALIA	M. Ong	(02) 6283 2491				
Facsimile No. (02) 6285 3929		l'elepnone 140.	(04) 0200 2 10 2				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/AU2004/000873

Box	No. I	Basis	of the report				
1.	With	wise indicate	ed under this iten	1.	al application in the language in which it was filed, unless		
	With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item. This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of: international search (under Rules 12.3 and 23.1 (b)) publication of the international application (under Rule 12.4) international preliminary examination (under Rules 55.2 and/or 55.3) With regard to the elements of the international application, this report is based on (replacement sheets which have been						
		international search (under Rules 12.3 and 23.1 (b))					
	publication of the international application (under Rule 12.4)						
				ary examination (under Rules 55	.2 and/or 55.3)		
2.	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report): X the international application as originally filed/furnished						
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		a	my table(s) relate	ed to the sequence listing (specifi	<i>y</i>):		
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			he description, p	ages			
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			any table(s) relat	ed to the sequence listing (specific	6 y):		
	* If item 4 applies, some or all of those sheets may be marked "superseded."						

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1.	Statement		
	Novelty (N)	Claims 1-32	YES
		Claims	NO
	Inventive step (IS)	Claims 1-32	YES
		Claims	NO
	Industrial applicability (IA)	Claims 1-32	YES
	•	Claims	NO

2. Citations and explanations (Rule 70.7)

The following document identified in the International Search Report have been considered for the purposes of this report:

D1: Ozbun, LL et al

Novelty (N): Claims 1-32

The present invention defines a method of modulating the level of an extracellular protein matrix (ECM) by modulating the expression or activity of cell division autoantigen (CDA), otherwise known as differentially expressed nucleolar TGF-beta 1 target (DENTT). In altering the levels of ECM, treatment or prevention of conditions related to an ECM protein is claimed. Further, the invention includes a method of screening for agents that achieves the desired results. The invention encompasses a method of diagnosing a condition related to synthesis of ECM protein in an animal through the determination of the level of CDA in a given sample.

D1 is directed to the identification of potential target gene cells involved in TGF-beta 1 mediated responses using a transforming growth factor-beta 1 responsive epithelial non-small-cell lung cancer cell line. It identified a 496 fragment, subsequently named differentially expressed nucleolar TGF-beta 1 target (DENTT). DENTT mRNA is induced by TGF-beta 1 and correlates with the induction of TGF-beta 1 mRNA, induction of extracellular matrix gene expression and inhibition of colony formation of TGF-beta 1. As none of the essential features of the claims are disclosed, claims 1-32 are considered to be novel.

Inventive Step (IS):Claims 1-32

D1 discloses that expression of DENTT or CDA is modulated by TGF- β 1 in human lung cancer cells. It also discloses that extracellular matrix gene expression is induced with the induction of DENTT mRNA. However, TGF- β 1 is also known to be involved in different biological pathways. The present invention is directed to the treatment or prevention of fibrotic disorders, for example systemic and local scleroderma, keloids, hypertrophic scars, artherosclerosis and restenosis through the alteration of ECM production. The claimed invention is therefore, considered to be not obvious in light of the cited document.

Industrial Applicability: Claims 1-32

Claims 1-32 have industrial applicability

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/AU2004/000873

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claims 26 and 27 relate to an agent or pharmaceutical composition that is capable of modulating ECM synthesis, identified through a screening step. These claims are not fully supported by the description as the agent or pharmaceutical composition is yet to be identified and could constitute well known substances that owe nothing to the present inventive concept.